

Please amend the remaining claims as follows:

63 1 ~~3~~ (Three times amended) A peptide comprising a modified tandem GnRH decapeptide sequence capable of inducing an immunogenic response that allows for discrimination between different types of GnRH, said peptide selected from the group consisting of SEQ ID NO: 5, SEQ ID NO: 6, and SEQ ID NO: 7.

64 2 ~~10~~ (Three times amended) A vaccine comprising the peptide of claim ~~1~~

6 27. (Two times amended) A peptide comprising a modified tandem GnRH decapeptide sequence capable of inducing an immunogenic response that allows for discrimination between different types of GnRH, said peptide comprising at least two coupled GnRH decapeptide sequences wherein ~~at least~~ ^{only} one of the amino acids of said coupled GnRH decapeptide sequences is replaced by a different amino acid, and selected from the group consisting of SEQ ID NO: 5, SEQ ID NO: 6, and SEQ ID NO: 7.

7 28. (Two times amended) A peptide comprising a modified tandem GnRH decapeptide sequence comprising a different amino acid comprising Ala, said peptide capable of inducing an immunogenic response that allows for discrimination between different types of GnRH and selected from the group consisting of SEQ ID NO: 5, SEQ ID NO: 6, and SEQ ID NO: 7.

Please add the following new claims:

8 35. (New) A peptide comprising a tandem GnRH decapeptide wherein said peptide is selected from the group consisting of SEQ ID NO: 5, SEQ ID NO: 6, and SEQ ID NO: 7.

6 9 36. (New) A vaccine comprising the peptide of claim ~~55~~ ⁸

10 37. (New) The vaccine of claim ~~36~~ ⁹, further comprising an adjuvant.

11 58. (New) The vaccine of claim ~~57~~¹⁰, wherein said adjuvant is an oil phase of an emulsion selected from the group consisting of a water-in-oil emulsion and a double oil emulsion.

6 12 30. (New) The vaccine of claim ~~36~~⁹ that is sufficiently active for administration in a single dose for the essential immunocastration of pigs.
